

***Remarks***

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1-10 are pending in the application, with claims 1 and 8-10 being the independent claims. Claim 10 stands rejected under the doctrine of obviousness-type double patenting over claim 1 of U.S. Patent No. 6,721,821 to Rent (hereinafter “Rent”). Claims 1-3, 5-8 and 10 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 5,986,880 to Santeler *et al.* (hereinafter “Santeler”). Claims 1 and 4 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 5,481,432 to Tsukada *et al.* (hereinafter “Tsukada”). Claim 9 stands rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,073,188 to Fleming (hereinafter “Fleming”).

The Applicant thanks the Examiner for the acceptance of the formal drawings and the acknowledgement of the Information Disclosure Statement, both of which were filed August 23, 2004. Additionally, the Applicant thanks the Examiner for noting the informality in claim 9. Accordingly, claim 9 has been amended to correct the informality and further clarify its language.

Based on the above amendment and the following Remarks, Applicant respectfully requests that the examiner reconsider all outstanding objections and rejections and they be withdrawn.

I. The Obviousness Type Double Patenting Rejection Has Been Overcome

In response to the double patenting rejection of claim 10 over claim 1 of U.S. Patent No. 6,721,821 to Rent, Applicant has filed a terminal disclaimer herewith. Therefore, Applicant respectfully requests that the Examiner withdraw the rejection of claim 10.

II. Claims 1-3, 5-8 and 10 Are Patentable Over Santeler

Claims 1-3, 5-8 and 10 stand rejected under 35 U.S.C. 102(e) as being anticipated by Santeler. For the following reasons, this rejection is respectfully traversed.

Claims 1 recites “an electronic data storage apparatus . . . comprising a removable substrate [and] at least one electronic data storage device [where] said at least one storage device [is] mounted on said substrate.” Claim 8 recites “an electronic data storage apparatus . . . comprising a plurality of substrates, wherein each of said substrates is configured for selective installation in said electronic data processing device [and] at least one electronic data storage devices mounted on each of said substrates.” Claim 10 recites “an electronic data storage apparatus, comprising a substrate adapted for selective insertion into a chassis [and] at least one first electronic data storage device connected to said substrate.”

Santeler discloses a system that allows for an array of controller cards 30 to be removed without removal or disconnection of cables that connect the cards to multiple disk drives. *See* col. 3, ll. 55-65. The disk drives are connected to the cables by way of circuit boards that are mounted on the side of support cages. *See* col. 3, ll. 30-35. Santeler discloses that the disk

drives 20 may be inserted into the support cages and may be removably mounted to a *fixed* circuit board. *See* col. 3, ll. 35-43; Figure 1.

A. Santeler Does Not Disclose Or Suggest A Removable Substrate

With regard to claim 1, Santeler does not disclose or suggest the use of a “removable substrate.” While Santeler may disclose that the disk drives may be removed from the support cage, Santeler does not disclose or suggest that the circuit board may be removed in the same manner. In fact, Santeler discloses that the circuit board is *mounted* inside the support cage and, therefore, is immovable without dismantling the device. *See* col. 3, ll. 31-33.

As opposed to the device disclosed by Santeler, claim 1 includes data storage devices that are mounted on a removable substrate. The data storage devices may be mounted on and electrically connected to a card that may be inserted and secured into, for example, a receptacle or slot in the chassis of a computer. *See e.g.*, spec., p.3.

Because Santeler fails to disclose or suggest the claimed apparatus including “an electronic data storage apparatus for use in connection with an electronic data processing device comprising a removable substrate, at least one electronic data storage device [where] said at least one storage device [is] mounted on said substrate,” claim 1 is allowable over Santeler. Claims 2, 3 and 5-7 depend from claim 1 and are allowable for at least these reasons. Therefore, the Applicant respectfully requests that the Examiner withdraw the rejection of claims 1-3 and 5-7.

B. Santeler Does Not Disclose Or Suggest A Plurality of Substrates Configured for Selective Installation

With regard to claim 8, Santeler does not disclose or suggest the use of “a plurality of substrates, wherein each of said substrates is configured for selective installation in [an]

electronic data processing device.” While Santeler may disclose that the disk drives may be removed from the support cage, Santeler does not disclose or suggest the selective installation of substrates upon which the disk drives are mounted. As discussed above, Santeler discloses that the circuit board is *mounted* inside the support cage and, therefore, is immovable without dismantling the device. *See* col. 3, ll. 31-33.

Because Santeler fails to disclose or suggest the claimed apparatus including “an electronic data storage apparatus . . . comprising a plurality of substrates, wherein each of said substrates is configured for selective installation in said electronic data processing device [and] at least one electronic data storage devices mounted on each of said substrates,” claim 8 is allowable over Santeler. Therefore, the Applicant respectfully requests that the Examiner withdraw the rejection of claim 8.

C.     Santeler Does Not Disclose or Suggest a Substrate Adapted for Selective Insertion Into a Chassis

With regard to claim 10, Santeler does not disclose or suggest the use of “a substrate adapted for selective insertion into a chassis.” While Santeler may disclose that a disk drive may be removed from a support cage, Santeler does not disclose or suggest the selective insertion of the substrate upon which the disk drives are mounted. As discussed above, Santeler discloses that the circuit board is *mounted* inside the support cage and, therefore, is immovable without dismantling the device. *See* col. 3, lines 31-33.

Because Santeler fails to disclose or suggest the claimed apparatus including “an electronic data storage apparatus, comprising a substrate adapted for selective insertion into a chassis [and] at least one first electronic data storage device connected to said substrate,” claim

10 is allowable over Santeler. Therefore, the Applicant respectfully requests that the Examiner withdraw the rejection of claim 10.

III. Claims 1 and 4 are Patentable Over Tsukada

Claims 1 and 4 stand rejected under 35 U.S.C. 102(e) as being anticipated by Tsukada.

For the following reasons, this rejection is respectfully traversed.

Claim 1 recites “an electronic data storage apparatus . . . comprising a removable substrate, at least one electronic data storage device [where] said at least one storage device [is] mounted on said substrate.”

Tsukada discloses a system that allows for an entire computer to be inserted into and removed from peripheral equipment. *See* col. 1, ll. 9-12. The computer components are encased in an enclosure that is closed and fastened with screws. *See* col. 6, line 41 to col. 7, line 15. The enclosure contains a circuit board upon which computer components are mounted. *See* col. 7, ll. 16-22. The circuit board is electrically connected to the enclosure via a connector and the enclosure may be connected to any number of peripheral systems.

Tsukada, however, does not disclose or suggest “a removable substrate.” While Tsukada may disclose that the computer and all of its components are collectively portable and, as a whole, may be inserted into and removed from peripheral systems, Tsukada does not disclose or suggest that the substrate alone is removable.

Because Tsukada fails to disclose or suggest the claimed apparatus including “an electronic data storage apparatus for use in connection with an electronic data processing device comprising a removable substrate, at least one electronic data storage device [where] said at least

one storage device [is] mounted on said substrate,” claim 1 is allowable over Tsukada. Claim 4 depends from claim 1 and is allowable for at least these reasons. Therefore, the Applicant respectfully requests that the Examiner withdraw the rejection of claims 1 and 4.

IV. Claim 9 is Patentable Over Fleming

Claim 9 stands rejected under 35 U.S.C. 102(e) as being anticipated by Fleming. For the following reasons, this rejection is respectfully traversed.

Claim 9 recites “a data storage apparatus, the data storage apparatus including a removable substrate, an electronic data storage device [where] electronic storage device [is] mounted on said substrate.”

Fleming discloses a system that allows for a single user to switch between multiple computers in a network and access internal memory devices within the computers. *See* col. 3, ll. 34-37. The memory devices may be any memory device located within a computer connected to the network, such as a floppy drive, a hard disk drive, a CD-ROM, etc. *See* col. 3, ll. 37-40.

Fleming, however, does not disclose or suggest “a removable substrate and an electronic data storage device, where the electronic data storage device is mounted on the substrate.” In fact, Fleming only discloses that internal memory devices may be accessed but does not mention the structure of the internal memory device or the means by which it is connected to the network.

Because Fleming fails to disclose or suggest the claimed apparatus including “a data storage apparatus, the data storage apparatus including a removable substrate, an electronic data storage device [where] electronic storage device [is] mounted on said substrate,” claim 9 is

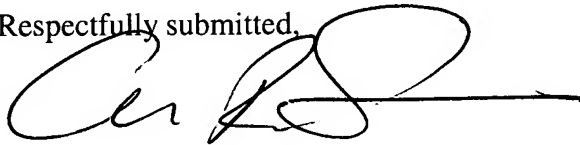
allowable over Fleming. Therefore, the Applicant respectfully requests that the Examiner withdraw the rejection of claim 9.

***Conclusion***

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. The Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to be a combination of the names Michael J. Bell and Andrew R. Sommer, written in a cursive, flowing style.

Michael J. Bell (Reg. No. 39,604)  
Andrew R. Sommer (Reg. No. 53,932)

Date: July 6, 2005

HOWREY LLP  
2941 Fairview Park Drive, Box 7  
Falls Church, VA 22042  
(703) 663-3600